Approved For Release 2000/04/77 014-RDP78B04747A000100100004-6

2 September 1964

PINA

MEMORANDUM FOR THE RECORD

SUBJECT: Evaluation of Kalvar Film and Viewer

STATOTHR

1. On 28 August, I visited the Modern demonstrated STATOTHR Virginia to inspect a Kalvar Viewer. the instrument since makes in the hospital.

- STATOTHR
- 2. The Kalvar Viewer permits Kalvar film to be rear projected to a built in screen. It is a prototype model for demonstration purposes only. The viewer measures approximately $1\frac{1}{2}$ ' x $1\frac{1}{2}$ ' x 1', has a screen 9" x 9", accommodates film chips $2\frac{1}{4}$ " x $2\frac{1}{4}$ " and magnifies 4X.
- 3. A slide projector, centrally located in the viewer, uses a 150 watt incandescent bulb to project a positive image to the screen by transmission. In addition, the viewer is equipped with two projectors, each mounted at an oblique angle to the front of the film. These projectors, equipped with 300 watt bulbs, are used only to illuminate the image on the surface of the Kalvar film. By switching off the centrally located projector, it is possible to reflect the illuminated image to the screen in the same manner as is accomplished with an opaque projector. Therefore, the viewer can project either a positive or negative image from the same film chips.

STATOTHR

informed me that the Surgeon General's office is very interested in such a viewer and that the Kalvar Corporation will be designing and manufacturing three viewers for that office. They will be used to develop a new technique of reading X-ray photos by switching alternately from positive to negative images.

STATOTHR

5. I also attended a demonstration of a breadboard model of a roll to roll printer developed by the two years ago. It gaseous discharge lamp which was developed by two years ago. It provides a pulsed light source suitable for Kalvar exposures. The

Excluded from automotic

Approved For Release 2000/04/17 : CIA-RDP78B04747A000100100004-6 SECRET :

SUBJECT: Evaluation of Kalvar Film and Viewer

STATOTHR	STATOTHR	
representative, months intermittent and sometimes many in intensity is obs	use of the pulsed source, sometimes once a hundreds of flashes in a day, no apparent of	a day

STATOTHR

- 6. The lamp will be brought to the attention of Eastman Kodak for possible investigation as a light source for a Rapid Access Printer. However, I don't think that the lamp is available for STATOTHR general use.
- 7. The chief shortcoming of the Kalvar system lies in the inherent short density range. The present system cannot accommodate aerial negatives having very long tonal range and cannot print through silver negative densities greater than 1.3.
- 8. Kalvar film does not have the versatility required for use in a Rapid Access Printer since it produces a negative image from a positive. It has greater possibility for use as a duplicating medium for line rather than continuous tone chips.
- 9. After checking with several operational units in the Center and relaying information on Kalvar, I was informed by that PID may be able to use Kalvar reproduction with line work. He will be making arrangements to see a demonstration of the material in the local office of Kalvar.

STATOTHR

25X1A

Development Branch, P &DS

SECKLI



Approved For Release 2000/04/17 : CIA-RDP78B04747A000100100004-6

			gar a stand	
6 August 1964	7 August 19	64	TEMENT A	15412
SSIGNED TO	25X1A	6 Aug 64 by R.Y.N		28 Aug 64
SUBJECT: Kalvar mate REFERENCE: Conference (Kalvar) of 4 Aug. 196		nd (STATO	THR
1. This assignment is instructing your assis 2. By reference, materials and viewer. 3. A thorough evaluat contact duplicating me tone chips is required 4. An evaluation of t 5. Prepare Memorandum	tance to was shown the ion of the materia dium for line and/ he viewer is also	e latest Kalvar al as a possible or continuous desired.	25X1A	
ONTRACTOR		CONTRACT NO	TYPE	
ON 81 GNEE	Marie Control of the	CLASSIFICATION	TOTAL COST	
SAL RECEIVED STAFF	STUDY COMPLETED	SENT TO TOC	TOC ACTION	
25X1A	RACT DATE	ESTIMATED COMPLETION	COMPLETION	DATE
ONITOR	Kalvar ma	terials and viewer		* Minor